



Houston Technology Center

How to Overcome First Mover DISadvantage



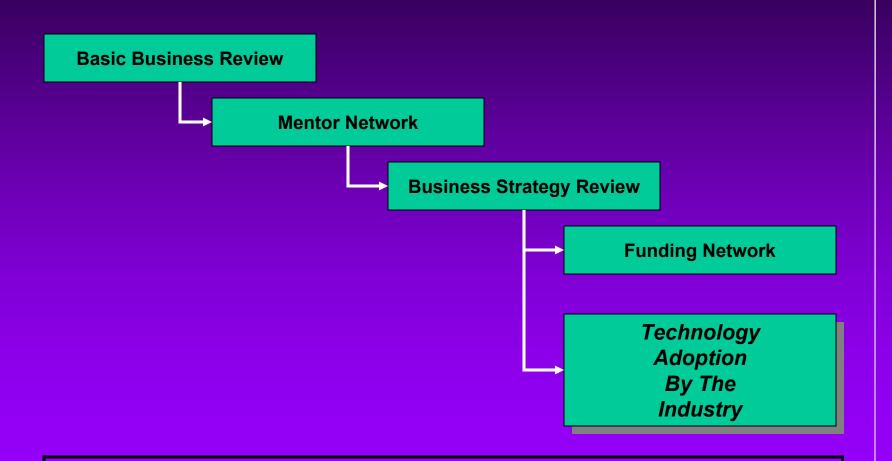
The Houston Technology Center

HTC is a non-profit business accelerator for Houston-based emerging technology companies

- Full-time staff to focus on early stage due diligence and support
- A network of 200 Mentors providing experienced advice
- 250 identified Service Provider Companies
- 100 Angel Investors looking for investment opportunities
- 70 Venture Capital Firms & Corporate Investors
- Network of Corporate customers



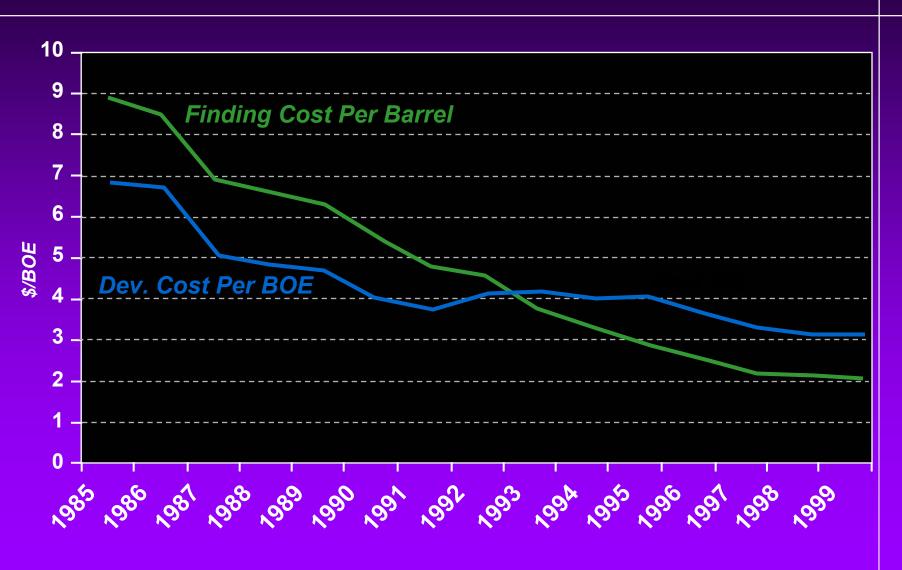
HTC is Involved Early



The market must determine the viability of a technology

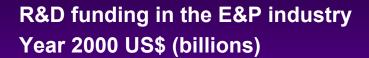


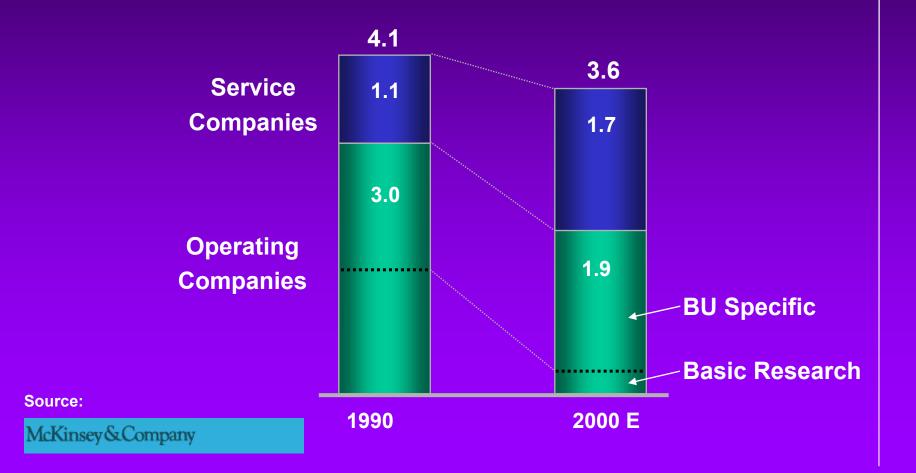
Value of Technology





R&D is increasingly "outsourced", and central funding has been reduced drastically

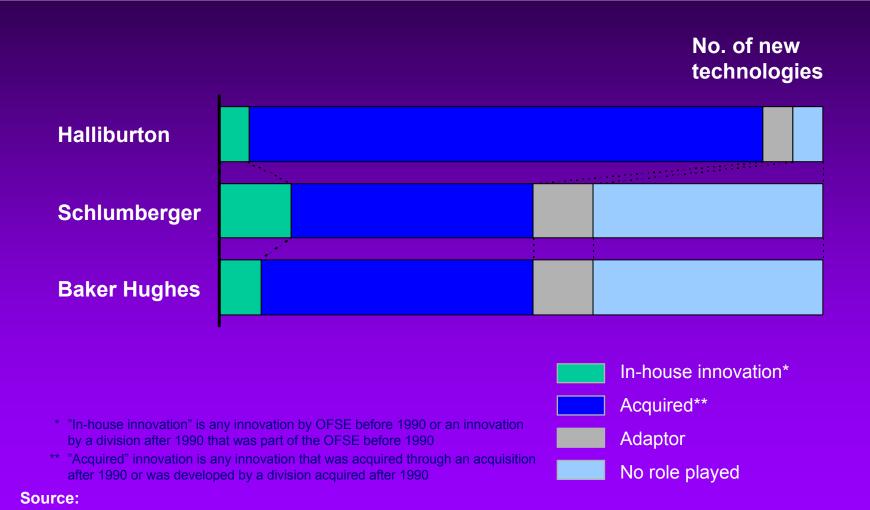






McKinsey & Company

The "Big 3" Oil Field Service Companies have primarily entered new technology markets through acquisitions

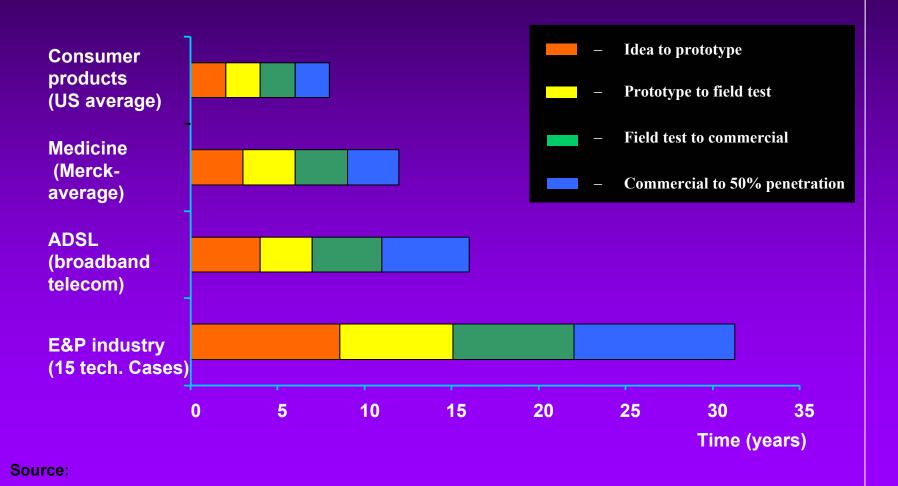




McKinsey & Company

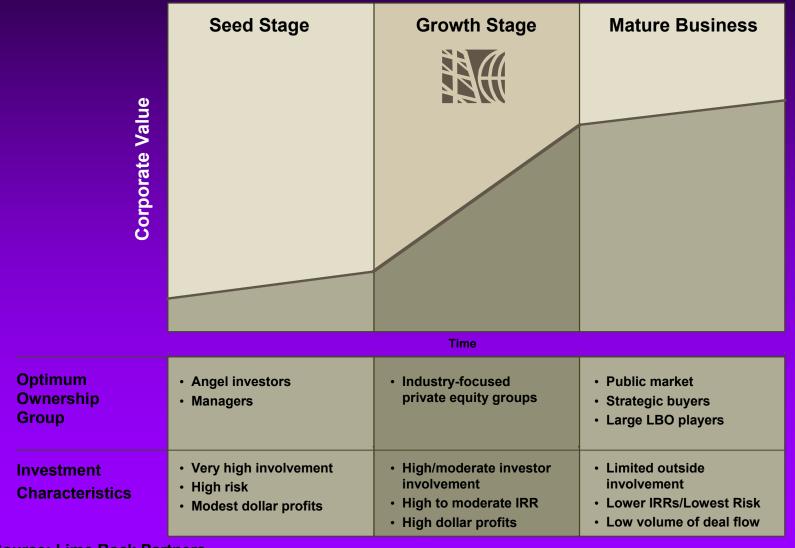
The pace of innovation in E&P has been slow relative to that in other industries

Average duration of the four phases in different industries





Product Development Cycle

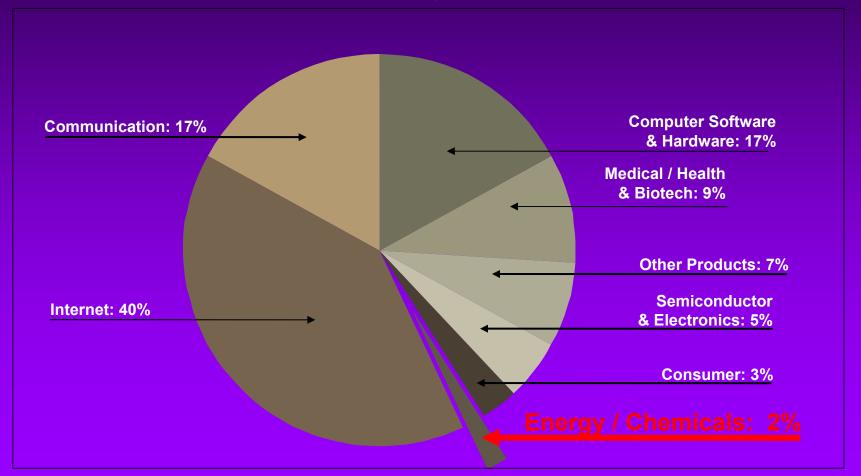


Source: Lime Rock Partners



Private Equity Investment in the Energy Sector

U.S. venture capital and private equity disbursements 1997- 2000



Source: Venture Economics



The Energy Industry is Strategically Challenged

Commodity business

- Price takers
- Many economic tools are unavailable:
 - Differentiation
 - Total solution
 - Price discrimination
- Cyclic



The Strategically Reality

♥ Cost is Everything

♦ Cost is Everything

♦ Cost is Everything



Cost Focus has Obvious Manifestations

- Little slack in the organization
- Key roles missing
- Difficult to get in the door
- Little discretion in budgets
- Moneyed decision makers are elusive
- Risk aversion:
 - No experiments on \$10m wells.
 - No second chances.
- Technology push is difficult



Strategies to Overcome Disadvantages

- Alleviate customer pain (market pull)
- Engage marquee customers early
- Find a customer who will help with the costs
- Deliver on time and under budget
- Assemble a top tier management team
 - Match abilities with the market
 - Be prepared for effort required
 - Know the market
 - Be known in the market





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